

## ABSTRACT OF THE DISCLOSURE

An IC including a margining control amplifier circuit, first and second offset pins, a margining control pin, select logic, and a mirror amplifier circuit. The margining control amplifier circuit drives current at an output to control voltage at an input based on a reference voltage. The first and second offset pins are provided to couple an external margining voltage divider. The margining control pin has at least two states including an up state and a down state. The select logic selectively switches the output of the margining control amplifier circuit between the first and second offset pins and selectively switches the input of the margining control amplifier circuit between the second and first offset pins based on a state of the margining control pin. The mirror amplifier circuit mirrors voltage across the first and second offset pins across a first margining resistor.